



Attorney's Docket No. 21891.02500

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Christopher Hoover

Examiner:

For: METHOD FOR HIERARCHICAL  
SPECIFICATION OF SCHEDULING IN  
SYSTEM-LEVEL SIMULATIONS

Group Art Unit: 2123

Serial No.: 09/691,406

Filed: October 17, 2000

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TRANSMITTAL LETTER

Attn: Application Processing Division  
Customer Correction Branch  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

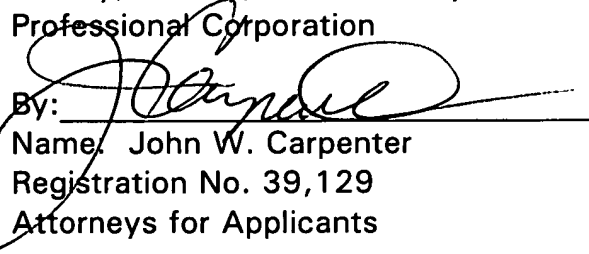
Enclosed is a Request For Correction Of The Official Filing Receipt for the above-identified patent application.

The Commissioner is hereby authorized to charge any additional fees (or credit any overpayment) associated with this communication and which may be required under 37 CFR § 1.16 or § 1.17 to Deposit Account No. 03-3821, referencing **Attorney Docket No. 21891.02500**. A duplicate sheet is attached.

Respectfully submitted,  
Crosby, Heafey, Roach & May  
Professional Corporation

Dated: December 19, 2000

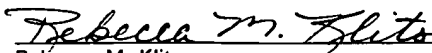
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By:   
Name: John W. Carpenter  
Registration No. 39,129  
Attorneys for Applicants

**CERTIFICATE OF MAILING - 37 C.F.R. § 1.08**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Attn: Application Processing Division, Customer Correction Branch, Washington, D.C. 20231 on December 19, 2000.

December 19, 2000

  
Rebecca M. Klits



Attorney's Docket No. 21891.02500

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**REQUEST FOR CORRECTION OF THE OFFICIAL FILING RECEIPT**

Attn: Application Processing Division  
Customer Correction Branch  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Attached is a copy of the Filing Receipt which was received in our offices on December 19, 2000, in connection with the above-identified application.

The Filing Receipt is in error. Please amend the receipt as shown in red ink on the attached copy as follows:

The Title should read:

Method for hierarchical specification of scheduling in system-level  
simulations

A copy of the first page of the patent application showing the title of the application is enclosed.

Please forward the amended Official Filing Receipt to:

John W. Carpenter  
CROSBY, HEAFEY, ROACH & MAY  
P.O. Box 7936  
San Francisco, CA 94120-7936

In the event it is determined that a fee pursuant to 37 C.F.R. § 1.19(h) is required in connection with this request, the Commissioner is hereby authorized to charge any additional fees, including any fees necessary for extensions of time, or credit overpayment to Deposit Account No. 03-3821, referencing **Attorney Docket No. 21891.02500**. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Crosby, Heafey, Roach & May  
Professional Corporation

Dated: December 19, 2000

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Name: John W. Carpenter  
Registration No. 39,129  
Attorneys for Applicants



## UNITED STATES PATENT AND TRADEMARK OFFICE

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WASHINGTON, D.C. 20231  
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/691,406	10/17/2000	2123	854	21891.02500	6	28	2

Crosby, Heafey, Roach & May  
P.O. Box 7936  
San Francisco, CA 94120-7936

## FILING RECEIPT



\*OC000000005605515\*

Date Mailed: 12/07/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Christopher Hoover, Los Gatos, CA ;

## Continuing Data as Claimed by Applicant

## Foreign Applications

If Required, Foreign Filing License Granted 11/30/2000

## Title

*hierarchical*  
Method for hierarchical specification of scheduling in system-level simulations

## Preliminary Class

703

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Data entry by : GURMU, MULUEMEBET

Team : OIPE

Date: 12/07/2000





COPY

**A METHOD FOR HIERARCHICAL SPECIFICATION  
OF SCHEDULING IN SYSTEM-LEVEL SIMULATIONS**

**Inventor: Christopher Hoover**

**ABSTRACT OF THE DISCLOSURE**

A method for hierarchical specification and modeling of scheduling in system-level simulations. The invention addresses the specification aspect by introducing an explicit notion of a scheduler that must be designed as part of the system. A scheduler effectively represents a scheduling policy for an architectural resource. A scheduling policy governs how behaviors assigned to a resource, gain access and share the resource. The invention includes a general framework for modeling a scheduling policy, which includes a simple mechanism that covers many common cases. This framework is part of a Virtual Component Codesign (VCC) process, which is targeted at consumer embedded system design. Two orthogonal models, one of a scheduler and one of a schedulable, comprise the overall modeling of scheduling in the invention. The two models interact by sending messages to each other via a simple protocol. The protocol itself is implemented by a pair of abstract interfaces, which in turn are implemented in concrete schedulable and scheduler objects in the simulator.

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Bib Data Sheet

CONFIRMATION NO. 3943

<b>SERIAL NUMBER</b> 09/691,406	<b>FILING DATE</b> 10/17/2000 <b>RULE</b>	<b>CLASS</b> 703	<b>GROUP ART UNIT</b> 2123	<b>ATTORNEY DOCKET NO.</b> 21891.02500
<b>APPLICANTS</b> Christopher Hoover, Los Gatos, CA; <b>** CONTINUING DATA *****</b> <b>** FOREIGN APPLICATIONS *****</b>				
<b>IF REQUIRED, FOREIGN FILING LICENSE</b> <b>GRANTED ** 11/30/2000</b>				
Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after met Allowance Verified and Acknowledged _____ Examiner's Signature Initials		<b>STATE OR COUNTRY</b> CA	<b>SHEETS DRAWING</b> 6	<b>TOTAL CLAIMS</b> 28
<b>INDEPENDENT CLAIMS</b> 2				
<b>ADDRESS</b> John W. Carpenter CROSBY, HEAFEY, ROACH & MAY P.O. Box 7936 San Francisco ,CA 94120-7936				
<b>TITLE</b> Method for hierarchical specification of scheduling in system-level simulations				
<b>FILING FEE RECEIVED</b> 984	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	

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